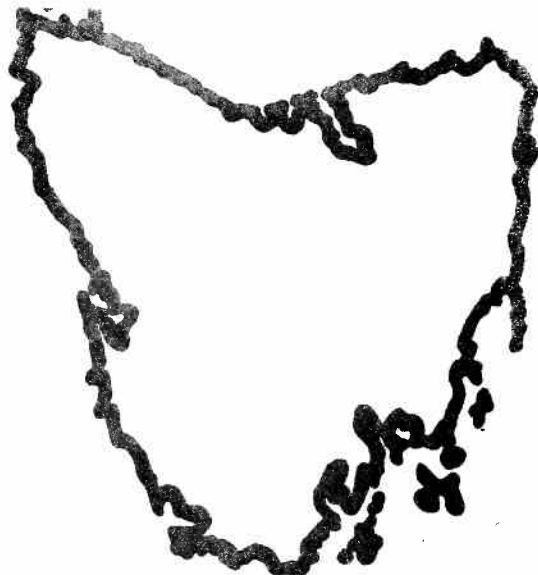


AMATEUR
QRM
RADIO

*Bulletin issued by the North, North West and
Southern Branches of the Wireless Institute
of Australia, Tasmanian Division.*

Registered for Posting
as a Publication,
Category B.



P.O. BOX 275
LAUNCESTON
TAS. - 7250

NOVEMBER 1980 VOLUME 10 No. 10

Meetings:- South 5th, North-West 11th, North 14th.

EDITORIAL

Why not join us?

This copy of "QRM" is being forwarded to all licenced Amateurs in Tasmania. If you are a non member of the WIA why not consider joining?

Perhaps the reasons for belonging are rather intangible as you still reap the benefits of WIA activities without being a member. Increases in band allocations, provision of VHF beacons and repeaters, QSL services and assistance from other Amateurs are available to everyone - members or not. But shouldn't you offer your support?

The WIA's standing with licencing authorities and its political influence depends on having a high proportion of active amateurs as members. In Tasmania we are proud that we have such a high proportion but it can always be improved.

I guess criticism can be levelled at any organisation but we believe that the WIA in Tasmania is progressive and its organisation appropriate to its needs. But more support and ideas are always essential.

New members are always welcome at Branch meetings or to T.A.R.C.

Tune into our newsbroadcasts - 9.30 a.m. Sundays, 3570 kHz, 7130 kHz and VHF repeaters.

7.30 p.m. Sunday from Northern Branch repeater.

Increased membership helps everyone. If you are a non-member, fill in the enclosed membership form and return to your branch.

Why not join us?

73
Reg Emmett VK7KK
State President.

NORTHERN BRANCH NOTES

The last general meeting of the Branch was held at the clubrooms on the 10th October. There were 30 members and one visitor present, and this is pleasing to see.

The Treasurer, 7NAC, reported a healthy financial situation and reported a net loss of \$1.05 for the social evening at Riverside. This function obviously ran close to budget.

General Business: There was a reminder to the meeting to send their registration forms for TARC in as soon as possible, as the N.W. Branch has to advise caterers.

In discussion on the new repeater on Mt. Barrow, it was advised that the power supply and charger were completed. Tony VK7TP offered his assistance in the project.

In a formal motion, it was resolved to purchase a TL120, 100 watt linear amplifier to serve the TS120 HF rig at the clubrooms. The quoted cost was very reasonable and a worthwhile investment to the club.

J.C.T.A. There was no official request from the Scout Association to use VK7NB although several amateurs from the Northern Branch will be operating stations for the Jamboree on the air.

FOOTNOTE: David VK7YY and Les VK7NHA operated at Scotsdale, VK7ZWW, Mike operated on the West Tamar and Norm VK7ZTN at Badger Head.

QRM - In need of technical articles please.

Demonstrations: Following general business, Joe, VK7JG gave the meeting a display and explanation of his processor controlled RTTY set up. Andre, VK7AE followed with a demonstration of his SSTV using a ROBOT 400 with cassette and camera inputs. VK7ZGG then provided an excellent display of his microprocessor (CHALLENGER 1P) and its use in log keeping. All these demos were well presented and certainly appreciated.

NORTHERN BRANCH EXECUTIVE MEETING

The executive and office bearers met at the clubrooms on the 17th October.

The lists of new stations were tabled and here is a list of Northern new stations:

VK7AJ	Lyn Williams	ex VK7NLW
VK7ZAN	Alan Bourke	also VK7NAB
VK7LD	Lewis Davies	ex VK7NLD
VK7ZGA	Graham Wright	
VK7ZIR	Idriss Rees	
VK7MW	R. Wilkinson	
VK7ZOM	Rob Harper	also VK7NRH
VK7ZJM	Jan Harper	also VK7NJM
VK7ZTN	Norm Thurlly	
VK7ZPC	Peter Clarke	also VK7NPC

Con't....

NORTHERN BRANCH EXECUTIVE MEETING CON't.

There are more new stations than this but are unknown to the writer. Congratulations to all who were successful in the last examination.

MEETINGS AND DATES TO REMEMBER.

Next General Meeting: At the clubrooms on the 14th November. This will be a VHF night with emphasis on the use and function of the repeater and other repeaters. Also explanations of VHF Dx, something all the newer stations should be interested in. Remember that there is more to 2 metres than FM repeater operation. VHF is a big field but also very enjoyable.

Get-together: Great Northern Hotel

See you in the tram on the 1st floor on the 28th November. To those of you who have missed the first two such nights, please come along and discover what a friendly and relaxed evening it is. Stay for as little or as long as you like. See you there.

December General Meeting :- 12th December.

This will be a BYO BBQ with little or no business. Either cook your tea or just come for a rag-chew with glass in hand. BBQ will be set up at the rear of the clubrooms in the reserve area.

73 Ken Kirkman VK74KT

To all these VK7 Stations who have operated on "Open House" Comes a very special thanks from the many overseas stations who have been able to contact the elusive VK7.

"TOPICAL TOPICS"

Your scribe was asked the other day how to measure the height of a building with a multimeter.

Being of a non-technical nature, I suggested that one should climb to the top of the building, tie one end of a ball of string to the multimeter, let it drop to the ground, then measure the string which would give the height of the building.

However, Ellis, VK7WA has come up with a technical way of doing this, using a multimeter.

If anybody else has any ideas, send your info to the Editor.

Jim VK7NOW

NORTHERN BRANCH NOTES CON'T.

Sunday Evening Broadcast Roster

November 2	L. Harper	December 7	M. Ives
" 9	D. Bailey	" 14	R. Harper
" 16	J. Gelston	" 21	B. Yeoman
" 23	A. Everts	" 28	K. Kirkman
" 30	R. Emmett		

Scramble Co-ordinator for: November D. Bailey VK7YY
 December A. Everts VK7AE

LETTER TO THE EDITOR

Dear Sir,

In reply to the letter by Bob VK7NRH on page 7 of the Oct. issue of "QRM", I would like to agree with Bob, that a State-wide relay on 2 metres would be just fine.

This however, would preclude the many novices in the State, to give their opinion of the broadcast on the 80 metre call back.

I don't know what type of antenna Bob uses, or where his QTH is, but I think perhaps, he would be one of the few VK7's who does not receive a good broadcast.

If the 80 metre relay is poor because of QRM, QSB etc, then he has recourse to 40 metres or even 2m.

Whenever the broadcast is originated in the south or north, I have no trouble in receiving the transmission perfectly. When the broadcast is originated on the coast, the 40 metre signal is heard all over the State, the 2 metre relay is excellent, and according to all reports that I receive on the 80 metre call back, my 80 metre signal is received reasonably well throughout the state.

During the next 2 months when the broadcast is originated in the south and north, I will make a tape of a short transmission taken from 80, 40, and 2 metres, so we can then evaluate what the various transmissions sounded like over a period of 8 weeks.

Perhaps, until the new northern repeater is operational on Mt. Barrow - when a state wide hook-up would be quite feasible, Bob may like to help with the relay of the Sunday broadcast.

Yours faithfully,

J. Davis VK7NOW

NORTHERN BRANCH FAMILY DAY.

A Family Christmas Party will be held again this year at
Kings Meadows High School Gymnasium

on

Sunday December 7th.

Commencing at 3p.m. - Father Christmas will arrive
at 4.30 p.m.

Steaks, sausages, salads will be provided as will drinks
and ice-cream for the children.

Presents to a value not exceeding \$3.00 should be provided
for distribution to your children (please label clearly).

Even if you haven't children - come along; either show
your skills at badmington, table tennis or whatever - or
just ragchew around the barbeque.

If you intend to come either phone Phyl Gelston 443882
or send the slip below to ensure your steaks there for you.

Name

Number adultsChildren

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SOUTHERN BRANCH NOTES

The day/weekend at the Lagoon of Islands was a great success - even the weather smiled upon us - and a good time was had by those members and families from the North and South Branches who attended. It was difficult to ascertain numbers due to the frequency of wandering harmonics, but there were probably close to fifty present. Amateur radio even came into use to help the boys in blue, with satisfactory results.

Southern branch members were saddened to hear of the death of Ted Cruise, VK7EJ on Thursday the 8th of October. Our condolences go to his family.

VK7IF and XYL Jenny have left Tasmania last week for holidays overseas including Japan and America. Have a good time, Jenny and Ian!

Business arising from the latest S.B. executive meeting include the following topics:

The 6m. beacon is awaiting approval from the P & T Dept. before becoming operational from its newest site - the TCAE; this approval is dependant on some correspondence, and is expected very shortly.

The S.B. QSL cards have been printed and are now available.

A GDO is in the process of being purchased by the S.B., this will be for loan to members once bought.

The Store is awaiting the delivery of a large number of books, some of these have been on order for some time, and are expected to arrive shortly.

Due to the rationalisation of SES, it appears that the building may have to be vacated by 10 p.m., which could create difficulties with our monthly meetings. The question of Clubrooms is to be gone into yet again, so any suggestions, please let any clubroom committee or S.B. executive member hear them.

A Christmas hamper is to be raffled over the next couple of meetings, so members are requested to bring to the next meeting an item from the kitchen or failing that, the shack. (I have to pack it all up into a giant stocking, so no excessively heavy/huge/perishable items please.) The Raffle will be drawn on Sun. the 7th December at the Wags barbecue.

The next S.B. meeting will be on Wednesday November 5th. at the SES rooms in Melville St., starting at 8p.m.

The next S.B. executive meeting will be held on Thursday, November 20th.

The WAGS barbecue will be held on Sunday December 7th at the Waterworks reserve; the cost will be \$1.00 per person/family to cover costs of bread, salads etc. BYO meat and alcohol.

Con't.....

SOUTHERN BRANCH NOTES CON'T.

Advance notice - the Wags minihamfest will probably be at Lake St. Clare over the long weekend at the end of Feb. '81. - nomination forms will be in next month's QRM for nomination of committee members for the SB executive.

Sue VK7LSU

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TS520 Kenwood Mint condition SP520 and DG5 display included

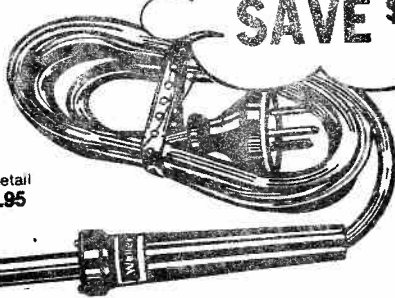
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NORTH-WEST NOTES

The usual monthly meeting was held at Club Headquarters, with MINUTES of the last meeting read by the Secretary and adopted.

CORRESPONDENCE Various letters were read including one from Roger Harrison, Technical Editor of "E.T.I" (a friend of the writer) offering 'hard-to-get' components for our ATV and FM 2M repeaters.

VK7NW QSL CARDS Preparation for designs is under way.

NEW MEMBER Application from Terry McMullen of Ulverstone was approved unanimously.

TREASURERS REPORT Bruce, VK7ZDY gave a detailed report to the meeting.

COUNCIL REPORT Ivan, VK7XL, reported in full.

S.E.S. Members were asked to volunteer to make themselves available as contacts. Several members offered their assistance

QSL OFFICER Don VK7? (awaiting new call) brought members up to date with the QSL situation. Don is doing a most efficient job.

ACTIVITY Wayne Gibson gave a most interesting discussion on Digital Logic, starting with the basic "Yes - No" and progressing through the various stages. Because of the depth and complexity of this subject, we hope Wayne can continue with this most advanced technique.

Wayne was thanked by the meeting for his effort.

Supper, served in the usual impeccable manner, by the Devonport members - headed by David VK7MS, who looked resplendant with an "Off the Shoulder" tea towel, concluded yet another FB meeting.

For Now, 73 Jim

The Handicapped Aid Programme aims to introduce to Disabled and Handicapped Persons, radio whether it be SWL or amateur. As there are problems for those with disabilities, to operate and maintain most common makes and models of gear can be difficult. Therefore, those who would be interested in assisting in this area are invited to contact me at 5 Helen Street, Launceston 7250.

This is also open to anybody wishing information about HAP.

As part of TARC '80, there will be a meeting of those wishing further information about these areas and about the Programme in general. This has been scheduled for Sunday 23rd. of November at 11 a.m. at the Penguin H.S. I look forward to your participation. - Robin L. Harwood VK7Rh

National Co-ordinator - HAP Australia.

STATE NEWSSpecial General Meeting

22nd November 5-15 p.m. Penguin High School

Agenda was supplied in last month's 'QRM'.

Education Grant

A \$500.00 donation from Dick Smith is to be spent on audio-visual software to assist WIA Education activities.

October Council Meeting

This was held in the Ansett "VIP Lounge" at Launceston Airport. All Council members were present and visitors VK7ZBY and VK7NAC. Matters discussed included subscription and budget for 1981, WICEN activities, Divisional policy statements, recommendations for Life Memberships and status of unfinancial members.

An unexpected account of \$250.00 for legal fees in connection with the Southern Repeater was referred to the Southern Branch.

Six new members were accepted.

HAPS

Elsewhere in "QRM" you will note an item on Robin Harwoods' involvement with this organisation. Council hopes that members will offer their services to assist this organisation and fully endorses Robins efforts.

Next Council Meeting

At T.A.R.C., time to be advised.



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CN-630	Daiwa SWR/PWR Needle: 140MHz-450MHz	135.00
CN-650	Daiwa SWR/PWR Needle: 1.2GHz-2.5GHz	179.00
CN-720	Daiwa SWR/PWR Needle: 1.8MHz-150MHz	152.00
LPM-880	Leader Rf Power Meter: HF	137.00
LPM-885	Leader SWR/PWR Meter: HF	97.00
RW-151D	Kuranishi Load Watt Meter: 1.5MHz-500MHz	165.00
VC-2	Vicom SWR/PWR 3-150MHz	36.00
SW110A	Daiwa SWR/PWR 1.8MHz thru 150MHz	79.00

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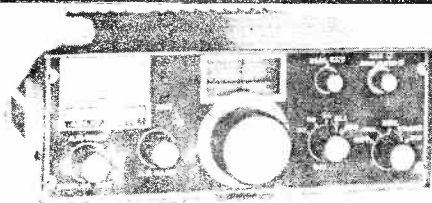
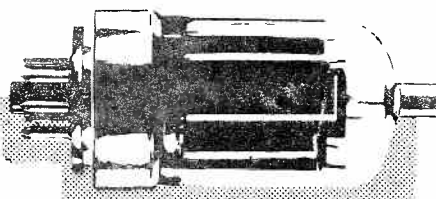
NC510	2 Pin Mic Plug	3.00
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WICEN NOTESTraining Course.

On Saturday September 13th a WICEN training course was held in Hobart. Fifteen members were introduced to the formal message-handling procedure as used by S.E.S. and by WICEN throughout Australia, and then given the opportunity to show what they had learned during an exercise on Sunday afternoon.

The course began at 9.15 a.m. (on time! and after an introduction by VK7AW, sessions on Message Writing and Formal Message Handling were led by Brian Brand, Southern Regional Officer, S.E.S. After morning tea Col Hocking, Training Officer S.E.S., took a session on the requirements of a Signals Centre, ranging from a simple one-man operation up to a full-blown headquarters situation.

Most participants enjoyed a counter lunch at the nearby Black Prince Hotel, and following this, VK7AW outlined details of insurance cover for members while on exercises and emergencies, also of callout procedures. Col Hocking then gave a brief session on Map Reading - normally a weekend course on its own. VK7R revealed the long lost VK7RHT repeater coverage map during a session on VHF propagation and repeater coverage; this was followed by the Course Summary and Briefing for the Sunday exercise. Proceedings were concluded by 4.30 p.m. (also on time!)

On Sunday (September 14th) three separate portable HF stations were established: one at Clarence S.E.S. H.Q., with outstations at Glenorchy (Tolosa St., reserve) and Oppossum Bay. From 2.00 p.m. until 3.30 p.m. a steady stream of exercise messages was maintained between the stations, relating mainly to storm damage. All messages were sent and received using the procedures learned the previous day, and the on-air performance was very good. All participants sent and received at least one message; the messages were prepared on standard SES message forms, and were completed by the operators (sending and receiving) with details of when the message was sent, by whom and over which system (HF).

At the conclusion, a brief summary was given. The main points arising were:

- (a) some operators were speaking too quickly;
- (b) some unfamiliar words were not spelled out, resulting in repeat requests;
- (c) too many call-signs were used too often - a common amateur trait.

The exercise was all over by 4.00 p.m.

From my point of view as WICEN Co-ordinator, I was very pleased, firstly with the number attending the course, and secondly with the performance of all participants in the exercise. Several ideas are being considered to provide regular practice in the procedures - one is to make every second monthly sked a message handling exercise. If anyone has any comments or ideas, please let me know.

Con't....

WICEN NOTES CON'T.

Finally, for all those who took part in the course, SES has made available copies of the Radio Procedures handbook. These may be collected from VK7AW.

Monthly Sked

WICEN members in the South are reminded of the monthly round-up, on the third Wednesday of each month, 2000 hours local, on Repeater 2 and 28-570MHz (simultaneously) WICEN members will be called in, as per the membership list. Wait until you hear your callsign, then report in.

Following any news or information, message-handling practice will take place. Please ensure that you have a copy of a Message Form (CDF3), blank or used, handy (You should have several from the Training Course). Also, before the sked, select a paragraph from your ARRL Handbook which can be sent as a message. Every station will send and receive one message, using the standard procedure.

T.A.R.C. Involvement.

WICEN is mounting a display at the Convention, consisting of a static display as well as a talk and demonstration on Sunday morning. Any members attending T.A.R.C. '80 are asked to contact VK7AW in order that they can be volunteered to help out.

73 VK7AW

FOR SALE

Ken 2meter hand held 2watt ch 40, ch 50, R2, R8, Ruber duck aerial, ni-cads and battery charger	\$185.00
Standard 2meter hand held 2watt ch 40, R2, R8, Carry case and hand microphone.	\$200.00
Kyokuto 2meter mobil P.L.L. 800 ch 10w/1w	\$285.00
VK3 Carphone kit 2 meter 12 watt	\$50.00
Sun bandpass yagi kit 14 element 2 meter kit	\$25.00
Copal 24 hour clock	\$15.00
3 - Vidicon tubes toshiba 8844 (sony AVC-3200CE camera)	
Weston carphone	\$4.00each
Pye carphone	\$5.00
TCA carphone 2 meter 25 watt cha, ch40, old R8,	\$5.00
VK3 carphone 2 meter 25 watt ch 40, R8,	\$20.00
Daiwa MC-330 Mic compressor	\$195.00
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AT200 antenna tuning unit \$120.00

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Reyco 40M TRAPS \$32.00 W2AU Balun \$32.00

Available soon.

AVANTI 2M "ON-GLASS" 2M and 70Cm antennas \$55.00 and \$65.00 each.

ICOM IC-720 HF Transceiver \$1379.00

VHF Notes.

A large Inversion around the 17th provided a lot of the "new" calls as well as many of the "old" ones with a taste of things to come for the summer.

With 5 VK3 repeaters being accessible for three days many FM contacts were made both from the mobile rig as well as from the home.

SSB activity was very sparse the VK3's being very conspicuous by their absence. The VK3RGG beacon on 52.33 has been audible for the past week with signals peaking to S5 during the inversion period.

6 Metres provided some activity on the 11th with very strong AURORAL propagation, VK3OT being the only mainland station active. He was worked by VK7's JV ZKT and JG. Despite several calls on R8 and R2 no other stations were heard. Around 1900 local time the following beacons could be heard VK3RGG on 52.33 VK3? on 52.435 and VK2WI was S2. on 52.45. So as you can see had there been a few more active amateurs on the band most of S.E. Australia could have been worked.

The Equinox did not provide any activity in the Southern Hemisphere but we can look forward and hope great things happen for us in November. This is usually the time to work all that "RARE" DX. On the other hand the Northern Hemisphere had a very active time with numerous openings from W. To JA W6 to 5WIAU and many more. If you listen on 28.885 around 0830 local time you will catch up with the latest activity. 73 till next month Joe VK7JG.

T.A.R.C. 1980.

Besides a lot of very complex and very modern equipment which will be on display, patrons are urged to inspect the "Radio Then" display. Nothing quite like this has ever been seen in Tasmania - perhaps Australia.

For instance, you will be able to hear an actual recording of the voice of Florence Nightingale; Kenneth Landfret, the sole surviving Trumpeter of the "Charge of the Light Brigade" (as at 1890 when he made the record) sounding "Charge" on the actual Trumpet he used at Balaclava.

You will also hear a Lecture by Thos. Edison - and wait for it! A talk by none other than Dr. Lee DeForest, the inventor of the Triude. (He has been dead for many years)

Also sounds recorded on the battle field in World War 1 - plus more.

A unique pictorial display of the 'Grap Zeppelin' and the ill-fated "Hindenberg" will be shown, with an undulator ink-recording of a CW message from the "Hindenburg" and finally some graphic pictures of the horrifying explosion as she came in to moor at Lakehurst, U.S.A. in 1937.

This concludes with an on the spot broadcast by Herb Morrison of N.B.C. news of the actual explosion. It is still regarded as the most graphic O/B ever made. You will hear him cry with emotion.

All these famous sounds will be heard coming from the audio end of a 46 year old radio - this radio is Original in every respect.

Hi Fi fans will see (and hear) where the Radiogram started from - 1925 would you believe.

Also, wait for it! you will hear how a radio was played through a gramophone! This device was popular in America in 1924.

Many historic studio mikes will also be on display, plus a Spy-Radio used in World War II and much, much more.

Don't miss this display.

Jim VK7NOW

"SCENE & HEARD"

Conditions over the past month have been very spasmodic. Early in October, there were severe ionospheric disturbances which disrupted H.F. communications. However, as often happens prior to one of these blackouts, long distance propagation of signals to areas and regions not normally noted at this time of year, did occur. WWV has daily Ionospheric Status and Solar Flux Numbers at 18 minutes past the hour, and WWVH, Hawaii, at 47 minutes past the hour.

Scoop of the month must be the reception of Pakse in Laos. I heard this on approximately 6610 Khz at 1127 GMT. The programme consisted of Thai type music, then they transmitted what appears to be an Interval Signal of Drums, which preceded an I/D with a male announcer. The language sounded as if it was from the Indochina Region, but it was not Vietnamese. At the time I did think I had Cao Bang in Vietnam, however, the October issue of the Australian DX News identified it positively as being a Provincial station within Laos. It has been varying in frequency from 6629 down to 6601 Khz. Cao Bang is now on a different frequency. Signals were only fair.

West African Signals were coming in very well at around 0630 to 0700z during the last week of September and the beginning of October. The Voice of Nigeria from Lagos was heard on 15120 Khz from 0635 to 0713 in English with their Gen. Oversea Service. Programme consists of News, Commentary and Nigerian Press Opinion, etc. Signals are excellent. As well several West African Utilities were heard: namely the Ivory Coast Internat'l Telecomm Corp. on 11.555 Khz with a Marker I/D in French/English on USB at 0634Z. Bangui in the Central African Republic was also noted on 15.630 Khz LSB also with English/French Marker I/D with strong RTTY QRM on the lower side. Listen at 0640Z.

Radio Nederland's DX Jukebox has a new producer/presenter. Jonathon Marks ex Austrian Radio DX Panorama and World Radio Club on the BBC brings the latest happenings in the world of DXing each week. It can be heard 0750 repeated 0850 on 9.715 Khz.

Don't forget the workshop/seminar on Short-wave listening to be held at TARC'80 at Penguin on the 22nd of November. Every one, whether he is a beginner or an experienced DXer, will find it interesting and informative. So come along and join in on the Saturday afternoon. Well, that is all for this month. Until then, the best of DXing and 73's Rob. L. Harwood.

WANTED TO BUY

One power transformer 240V/100 Volt C.T. Approx 100 M/A.

Can you help?

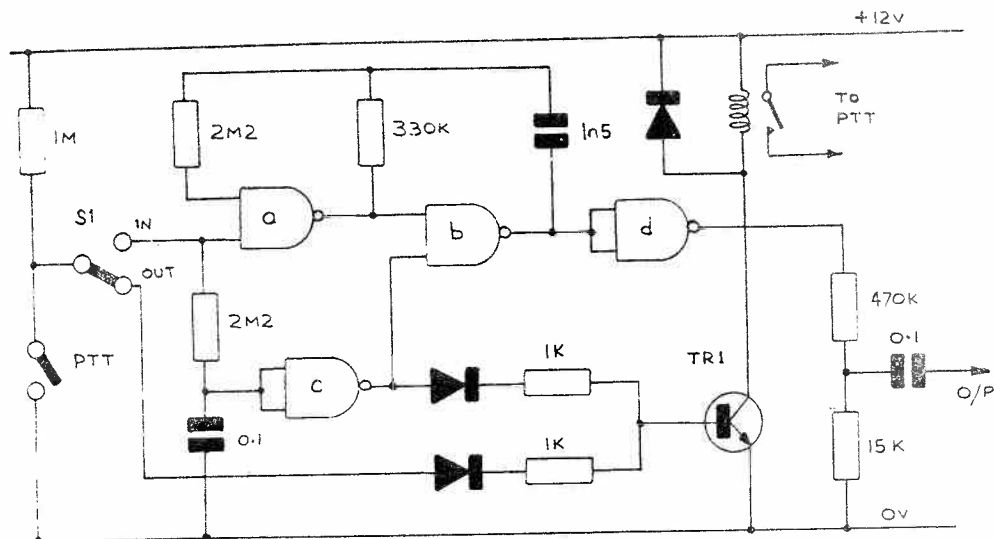
Then Contact VK7EA.

REPEAT P PREDICTIONS

ORBIT NR.	TIME Z	DEC. WEST	AOS Z	LOS Z	ORBIT NR.	TIME Z	DEC. WEST	AOS Z	LOS Z
1/ 11/ 80 SAT J	--REF	ORBIT---	13551--0120--	75.7--					
13555 0813	178.4 0936	0953	13556 0956	204.2 1113	1136				
13557 1139	230.0 1301	1314	13561 1332	333.2 1937	1944				
13562 2015	359.0 2110	2128	13563 2158	24.3 2253	2300				
2/ 11/ 80 SUN J	--REF	ORBIT---	13565--0125--	76.4--					
13569 0813	179.6 0941	0959	13570 1001	205.4 1123	1140				
13571 1144	231.2 1304	1319	13575 1237	334.4 1942	1949				
13576 2020	.2 2115	2133	13577 2203	26.0 2258	2304				
3/ 11/ 80 MON A	--REF	ORBIT---	13579--0130--	77.8--					
13582 0639	155.0 0804	0815	13583 0822	180.3 0945	1002				
13584 1006	206.7 1128	1145	13585 1149	232.5 1311	1324				
13589 1842	335.7 1941	1955	13590 2025	1.5 2120	2132				
13591 2208	27.3 2303	2309							
4/ 11/ 80 TUE A+J	--REF	ORBIT---	13593--0134--	79.0--					
13596 0644	156.3 0809	0820	13597 0827	182.1 0950	1007				
13598 1010	207.0 1132	1149	13599 1154	233.7 1316	1329				
13603 1846	336.0 1945	1959	13604 2030	2.7 2125	2143				
13605 2213	28.5 2308	2314							
5/ 11/ 80 WED X	--REF	ORBIT---	13607--0139--	80.1--					
13610 0649	157.5 0814	0825	13611 0832	183.3 0955	1012				
13612 1015	209.1 1137	1154	13613 1159	234.0 1320	1333				
13617 1851	338.1 1950	2004	13618 2034	3.9 2129	2147				
13619 2218	29.7 2313	2319							
6/ 11/ 80 THU A+J	--REF	ORBIT---	13620--0001--	55.5--					
13624 0653	158.7 0818	0829	13625 0837	184.5 1000	1017				
13626 1020	210.3 1142	1159	13627 1203	236.1 1325	1335				
13631 1856	339.3 1955	2009	13632 2039	5.1 2134	2152				
13633 2222	30.9 2317	2323							
7/ 11/ 80 FRI A	--REF	ORBIT---	13634--0005--	56.7--					
13638 0658	159.9 0823	0834	13639 0841	185.7 1003	1021				
13640 1025	211.5 1147	1204	13641 1208	237.3 1330	1340				
13645 1901	340.5 2000	2014	13646 2044	6.3 2139	2157				
13647 2227	32.1 2322	2328							
8/ 11/ 80 SAT J	--REF	ORBIT---	13648--0010--	57.9--					
13652 0703	161.2 0828	0839	13653 0846	187.0 1008	1026				
13654 1029	212.3 1151	1208	13655 1213	238.6 1335	1345				
13658 1722	316.0 1827	1834	13659 1905	341.3 2004	2018				
13660 2049	7.6 2144	2202	13661 2232	33.4 2327	2333				
9/ 11/ 80 SUN J	--REF	ORBIT---	13662--0015--	59.2--					
13666 0708	162.4 0833	0844	13667 0851	188.2 1013	1031				
13668 1034	214.0 1156	1213	13669 1217	239.8 1339	1349				
13672 1727	317.2 1832	1839	13673 1910	343.0 2009	2023				
13674 2053	8.8 2148	2206	13675 2237	34.6 2332	2339				
10/ 11/ 80 MON A	--REF	ORBIT---	13676--0020--	60.4--					
13680 0713	163.6 0838	0849	13681 0856	189.4 1018	1036				
13682 1039	215.2 1201	1216	13683 1222	241.0 1344	1354				
13686 1732	318.4 1837	1844	13687 1915	344.2 2014	2028				
13688 2058	10.0 2153	2211	13689 2241	35.8 2338	2351				
11/ 11/ 80 TUE A+J	--REF	ORBIT---	13690--0025--	61.6--					
13694 0717	164.8 0842	0853	13695 0901	190.6 1023	1041				
13696 1044	216.4 1206	1221	13697 1227	242.2 1349	1359				
13700 1737	319.6 1842	1849	13701 1920	345.4 2017	2033				
13702 2103	11.2 2158	2216	13703 2246	37.0 2343	2356				
12/ 11/ 80 WED X	--REF	ORBIT---	13704--0029--	62.8--					
13708 0722	166.0 0846	0901	13709 0905	191.8 1027	1045				
13710 1049	217.6 1211	1226	13711 1232	243.4 1354	1404				
13714 1741	320.8 1846	1853	13715 1925	346.6 2022	2038				
13716 2108	12.4 2203	2221	13717 2251	38.2 2348	0001				

an END OF TRANSMISSION bleep unit

B. D. J. ROBINSON G4FRA



ALL GATES $\frac{1}{4}$ CD4011
TRI BC108 OR SIMILAR
DIODES IN4148 OR SIMILAR

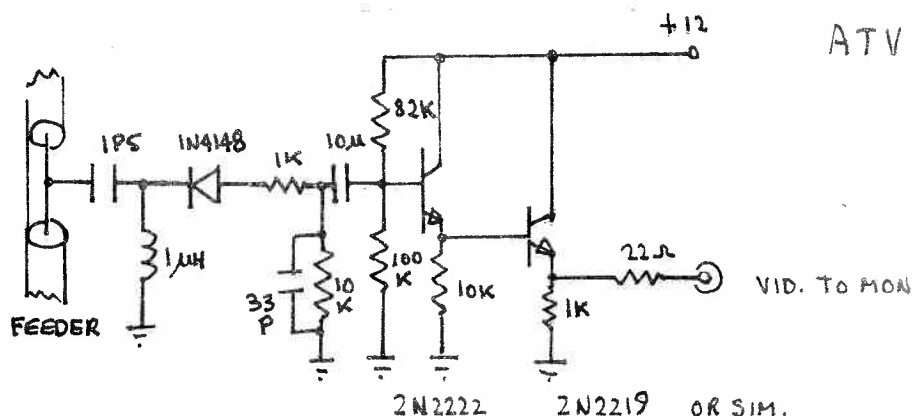
This circuit was developed to give an end of transmission 'bleep' using an easily available IC.

Gates 'a' and 'b' form a gated oscillator whose frequency is controlled by the 1n5 capacitor and the 330K resistor.

Gate 'c' creates a delay which controls the length of the bleep via the 0.1uF and the 2M2.

Gate 'd' buffers the output; the level is controlled by the 470K and the 15K potential divider chain.

The prototype was built on a piece of 0.1 inch veroboard $1\frac{1}{2}$ ins x 1 ins, and fixed inside a diecast box $3\frac{1}{2}$ ins x $1\frac{1}{4}$ ins x 1 ins. It is mounted in line with the microphone of my FT101b, using the internal 13 volts brought out through the spare pin of the microphone socket.



ATV DEMODULATOR.
A5.

USCAR 8 PREDICTIONS									
ORBIT NR.	TIME Z	DEG. WEST	AOS Z	LOS Z	ORBIT NR.	TIME Z	DEG. WEST	AOS Z	LOS Z
13/ 11/ 80 THU A+J--REF					OPBIT---				
13722 0727	167.3	0851	0906	13718--0034--	64.1				
13724 1053	218.9	1215	1230	13723 0910	193.1	1032	1050		
13728 1746	322.1	1851	1858	13725 1236	244.7	1358	1408		
13730 2112	13.7	2207	2225	13729 1929	347.9	2026	2042		
14/ 11/ 80 FRI A --REF					OPBIT---				
13736 0732	168.5	0856	0911	13731 2256	39.5	2353	0006		
13738 1058	220.1	1220	1235	13732--0039--	65.3				
13742 1751	323.3	1856	1903	13737 0915	194.3	1037	1055		
13744 2117	14.9	2212	2230	13739 1241	245.9	1405	1408		
15/ 11/ 80 SAT J --REF					OPBIT---				
13750 0736	169.7	0900	0915	13743 1934	349.1	2031	2047		
13752 1103	221.3	1225	1240	13745 2300	40.7	2357	0010		
13756 1756	324.6	1901	1908	13746--0044--	66.5				
13758 2122	16.2	2217	2224	13751 0920	195.5	1042	1100		
16/ 11/ 80 SUN J --REF					OPBIT---				
13764 0741	171.0	0905	0920	13753 1246	247.2	1410	1413		
13766 1108	222.6	1230	1245	13757 1939	350.4	2036	2052		
13770 1800	325.8	1905	1912	13759 2305	42.0	0002	0015		
13772 2127	17.4	2222	2229	13760--0048--	67.8				
17/ 11/ 80 MON A --REF					OPBIT---				
13778 0746	172.2	0910	0925	13765 0924	196.3	1046	1104		
13780 1112	223.8	1234	1249	13767 1251	248.4	1415	1418		
13784 1805	327.0	1910	1917	13771 1943	351.6	2040	2056		
13786 2131	18.6	2226	2233	13773 2310	43.2	0007	0020		
18/ 11/ 80 TUE A+J--REF					OPBIT---				
13792 0751	173.4	0915	0930	13774--0053--	69.0				
13794 1117	225.0	1239	1252	13779 0929	198.0	1051	1109		
13798 1810	328.2	1915	1922	13781 1255	249.6	1419	1422		
13800 2136	19.8	2231	2238	13785 1948	352.8	2045	2101		
19/ 11/ 80 WED X --REF					OPBIT---				
13806 0755	174.6	0919	0934	13787 2315	44.4	0012	0025		
13808 1122	226.2	1244	1257	13788--0058--	70.2				
13810 1815	329.4	1920	1927	13793 0934	199.2	1056	1114		
13812 2141	21.0	2236	2243	13795 1300	250.8	1424	1427		
20/ 11/ 80 THU A+J--REF					OPBIT---				
13818 0800	175.1	0923	0940	13799 1953	354.0	2050	2106		
13820 1127	227.4	1249	1302	13802--0103--	71.4				
13822 1810	330.7	1924	1931	13807 0939	200.4	1101	1119		
13824 2145	12.3	2241	2248	13809 1305	252.0	1429	1432		
21/ 11/ 80 FRI A --REF					OPBIT---				
13830 0805	177.1	0928	0945	13813 1958	355.2	2053	2111		
13832 1131	228.7	1253	1306	13816--0107--	72.6				
13834 1824	331.9	1929	1936	13821 0943	201.6	1105	1123		
13836 2151	23.5	2246	2253	13823 1310	253.2	1434	1437		
22/ 11/ 80 SAT J --REF					OPBIT---				
13848 0810	178.3	0933	0950	13827 2003	356.5	2058	2116		
13850 1136	229.9	1258	1311	13830--0112--	73.9				
13852 2012	358.9	2107	2125	13835 0943	202.9	1110	1128		
				13837 1315	254.5	1439	1442		
				13841 2007	357.7	2102	2120		
				13844--0117--	75.1				
				13849 0953	204.1	1115	1133		
				13854 1329	333.1	1934	1941		
				13856 2155	24.7	2250	2257		

As promised the above is a computer readout of Reference orbits and times AOS will be in range between AOS and LOS. You may think that I forgot to finish the month but the data can actually be used over and over again. For example the Reference orbit for 22/11/80 has a time of 0117. Have a look at the time for 1/11/80-- 0120. To continue for 23/11/80 use times for 2/11/80 and subtract 3 minutes and add onto the orbit number 307. You can continue down the list for following days in a similar manner. Next month I will try to have Reference Orbits listed similar to that which used to be in AR. Remember AOS transmits mode A between 29.4 to 29.5 mhz. and on mode J between 435.1 to 435.2 mhz. The modes listed for Thursday and Friday in the above lists should be reversed. Good listening VK7PF

TARC INFORMATION RE CATERING

Venue: Penguin High School, Ironcliff Road, Penguin.
Maps will be supplied in QRM October and November editions.

Date: November 22 and 23, 1980.

Registration Fee A fee of \$1.50 per adult, (children free,) will be charged at the door and on payment of same you will be supplied with a TARC 1980 name tag which enables you to receive morning and afternoon tea free of charge. If accompanied by your children cordial would be available to them.

Catering is being supplied by the Penguin Community Group (Penguin High School P & F Assn.) at very reasonable charges and will serve Saturday Lunch and Sunday Lunch at the High School for those who are registered, so make sure you have a name tag.

Saturday Lunch of soup sandwiches and coffee or tea or cordial will be available from 11.30 a.m. to 1.00 p.m. to registered members only.

Sunday Lunch will be smorgasbord style and will be served in a closed area of the school from 12 noon to 1.30 p.m. Advice of your attendance to this function is required in advance for catering reasons.

Saturday Evening Dinner dance will be held at the Penguin Sports Club, which is adjacent to the High School. This club is licenced, hence drinks are not included. There is ample room for dancing, a band will be in attendance, but rag chewing is encouraged; Lucky door prizes too.

Accommodation: Limited hotel accommodation is available at Penguin and there are 3 Motels in Ulverstone, Hotels too and Caravans Parks. If you require a booking or help with same, please contact Joan Fudge on 25 3770 (Area code 004)

Again this year TARC will be open to the public on Saturday afternoon and Sunday morning. Registered members and families enter free. Entrance fee for public is \$1.00 per adult, children free.

Name tags are important so make sure you have one.

CLOSING DATE FOR BOOKINGS TO FUNCTIONS IS 10TH NOVEMBER, 1980.

TASMANIAN AMATEUR RADIO CONVENTION 1980REGISTRATION FORM

NAME:CALLSIGN (if applicable).....

I wish to advise that the following will be attending for

A. Registration	ADULTS	\$.....
B. SATURDAY LUNCH	ADULTS	\$.....
	FAMILY	\$.....
	2 adults, 2 children	\$.....
C. SATURDAY DINNER	ADULTS	\$.....
DANCE	FAMILY	\$.....
	2 adults, 2 children	\$.....
D. SUNDAY LUNCH	ADULTS	\$.....
	FAMILY	\$.....
	2 adults, 2 children	\$.....

My cheque enclosed for

\$

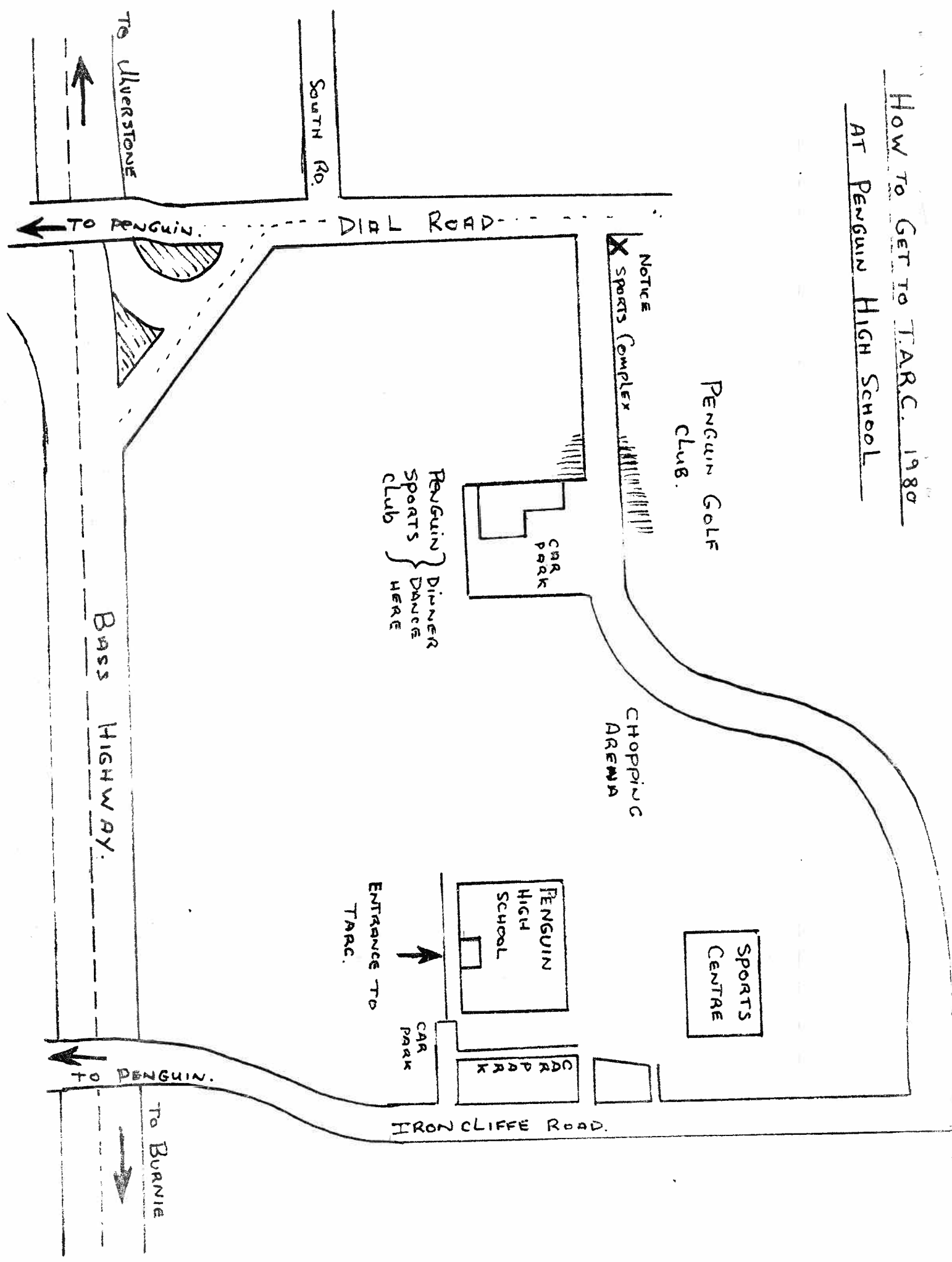
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RATES:

A. Registration:	\$1.50 per adult	
	\$1.00 per adult paid in advance	
	CHILDREN <u>FREE</u>	
B. Saturday Lunch	\$1.50 per adult	} PAID IN ADVANCE
	\$3.00 per family	
	\$2.00 per adult	} AT THE DOOR
	\$4.00 per family	
C. Saturday Evening	\$ 9.00 per single	} MUST BE PAID IN ADVANCE
	\$18.00 per double	
	\$23.00 per family	
D. Sunday Luncheon	\$ 4.50 per adult	} MUST BE PAID IN ADVANCE
	\$11.50 per family	

PLEASE FORWARD THIS FORM AND YOUR CHEQUE OR MONEY ORDER TO
N.W. BRANCH,P.O. BOX 194, PENGUIN, 7316. by NOVEMBER 10th, 1980.Late registrations, etc. will be received but a penalty of
50c per person will be charged.

How to Get to T.A.R.C. 1980
AT Penguin High School



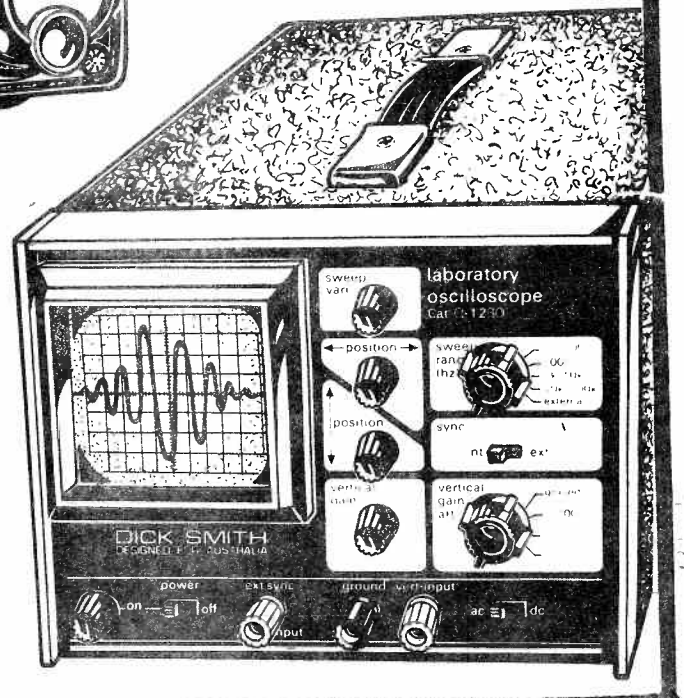


ACCESSORIES:
 FC-707 Antenna Tuner \$159
 FP-707 Base Power Supply \$179



Yaesu FT-707

DICK SMITH
 OSCILLOSCOPE - 6.5 MHz
 Q-1280 \$199



VK ELECTRONICS
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